

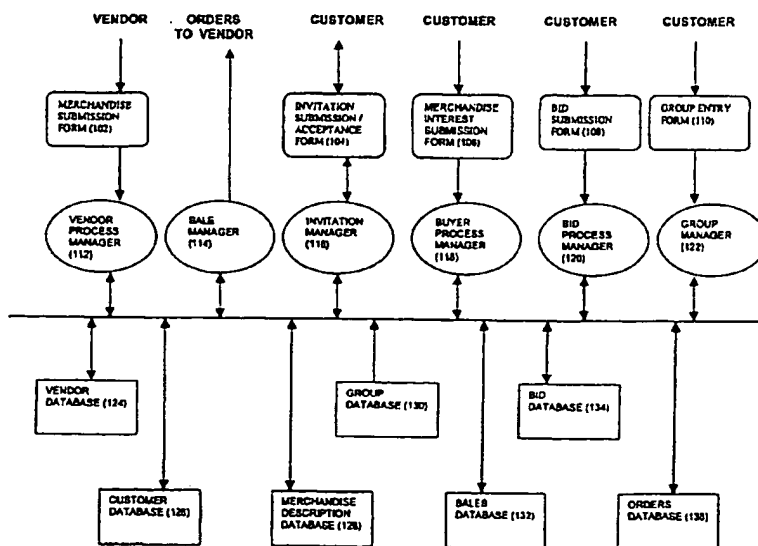
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(54) Title: METHOD AND SYSTEM FOR BUYER-INITIATED AGGREGATING OF BUYERS TO OBTAIN DESIRED PRODUCTS AT DISCOUNTED PRICES



## (57) Abstract

A buyer-initiated process including posting the description of a product item of interest to a buyer and aggregating buyers who are interested in the same product or service. Vendors can then offer the desired product or service by posting the best price they can offer to the group of buyers. The preferred process creates direct competition between vendors who wish to win the business of the aggregated buyer group. Buyers benefit from obtaining the desired product at the best price available from all participating vendors.

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Description

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**METHOD AND SYSTEM FOR BUYER-INITIATED AGGREGATING  
OF BUYERS TO OBTAIN DESIRED PRODUCTS AT DISCOUNTED PRICES**  
**BACKGROUND OF THE INVENTION**

**Field of the Invention**

The present invention relates generally to electronic commerce and more particularly to the formation of online communities to initiate the purchasing of products that are generally not available in the marketplace at reasonable prices.

**Description of the Related Art**

There are well-known and significant advantages available to buyers who increase their purchasing power. Vendors offer bigger discounts and better customer service to high volume customers, and are more willing to make changes to their product offerings to suit high volume buyer demands. In the available art, this greater purchasing power rests with big corporations. Individuals and smaller corporations presently do not have access to a flexible, multi-product mechanism providing the advantages afforded by high volume purchasing power.

There are currently two possible ways for buyers to improve their negotiating position with vendors. One approach is to join a purchasing club such as Sam's Club or Costco. However, a buyer taking this approach to purchasing suffers significant disadvantages. First, the club does all the negotiation with the vendors – the buyer is not involved in the negotiating process. Also, the purchasing club decides what products may be of interest to their members and then negotiates with vendors for those products. In addition, buyers must pick only from a pre-selected list of products and have no convenient mechanism for changing or adding to the products available. Also, buyers have no direct influence over the prices they pay, and have no incentive to cooperate with other buyers to affect prices. Finally, available buying clubs provide no mechanism to create direct competition between vendors for buyer activity.

Another way for buyers to improve their negotiating position is by signing up with a buyer-initiated purchasing process, such as the one offered by

Internet-based companies such as Priceline.com, whose sales mechanism is described in U.S. Patent No. 5,794,207, incorporated herein by reference. Specifically, Priceline.com provides a means for an interested user to state the price he or she would be willing to pay for a particular product. There is no aggregation of purchasing power. Further, using Priceline.com, an interested user can pick only a few well-known and commonly available products and services.

#### SUMMARY OF THE INVENTION

A preferred embodiment of the present invention comprises an automated system and method of buying, comprising: a) a Merchandise Interest Submission Form to obtain product information about a desired product from a first buyer; b) a Merchandise Submission Form to obtain sale information for the product from a first vendor; c) a Buyer Process Manager to store product information in a Merchandise Description Database; d) a Vendor Process Manager to store sale information in a Sale Database; and e) a Sale manager to match product information and sale information and generate orders for the product. Preferably, the system obtains offers from more than one vendor and then offers the buyers the best price. Also preferably, the system employs a Group Manager to aggregate buyers seeking the same product. Once a vendor is identified for a given product, the buyers in the corresponding group will automatically submit bids for the product. The system may also comprise a Bid Process Manager and Bid Submission Forms to allow additional buyers to place bids. The buyers may place and withdraw bids after the Start Time of the sale. After the Hold Time, only new bids and increased bids are allowed. Ideally, both the buyers and the vendor(s) communicate with the system via a wide area network such as the Internet. However, other means of submitting and receiving information from the system are possible including automated telephone systems or even direct input and output, such as keyboard, monitor and printer.

In another embodiment, the system comprises a) Buyer Process means for obtaining product information from a buyer about a product; b) Vendor Process means for obtaining sale information for the product from a vendor; and c) a

5 Sale means for matching product information and sale information and generate  
orders for the product. The invention also is a computer-implemented method  
comprising the steps of a) obtaining product information for a desired product  
10 from a buyer; b) obtaining sale information about the product from a vendor; c)  
5 storing and organizing the sale information; d) storing and organizing the product  
information; e) matching product information and sale information; and f)  
15 generating orders for the product. The method can also comprise the steps of  
grouping additional buyers based on interest for the same product or comparing  
the sale information from more than one vendor to find the best price or offering  
20 invitations to potential buyers. The invention also comprises computer-readable  
media having instructions for carrying out the above steps.

The present invention is a buyer initiated process where a buyer who  
desires a specific product that is either atypical, and hence currently unavailable  
25 in the marketplace, or is available at a price that he is unwilling to pay, can  
15 aggregate buyers who also want the same product. This aggregation of other  
potential buyers may be done by any number of ways including postal mail,  
advertisements, email, or using the Internet. This aggregation of buyers will  
30 result in an entity with a greater purchasing power than was possible by any of  
its members acting alone.

20 The group that has been formed to express an interest in buying a  
35 particular product attracts vendors who desire to offer the particular product to  
the group, thereby inducing price competition among the vendors who offer the  
product, to the group's benefit. These vendors may not have otherwise offered  
40 the product at those prices for various reasons. For example, they may not  
25 have been aware that such a product was desired or that there was sufficient  
demand for the product. With the formation of the group, however, the  
marketing cost to find buyers for the product has been reduced and hence some  
45 of those savings can now be passed on to the buying group.

It is therefore a first advantage of the present invention to provide an  
30 intermediary-free opportunity for buyers to negotiate with vendors while  
50 aggregating purchasing power

5 It is a second advantage of the present invention is that any consumer  
can describe the product he would like, aggregate others with a similar interest,  
and engage in negotiating with potential vendors.

10 It is another advantage of the method and system of the present invention  
5 is that the purchasing group is temporarily formed to get the best possible price  
for a particular product of interest to the group, no matter how obscure or  
unusual the product might be.

15 Still another advantage of the method and system of the present invention  
is the provision of increased buyer choice and direct effect on product selection,  
10 direct buyer influence on the price paid for an item, the provision of incentive for  
buyers to cooperate in order to influence price, and the provision of a forum for  
20 active competition between vendors for a set of buyers committed to purchasing  
an item.

#### 25 **BRIEF DESCRIPTION OF THE DRAWINGS**

15 The aforementioned advantages of the invention, as well as additional  
advantages thereof, will be more fully understood as a result of a detailed  
description of a preferred embodiment when taken in conjunction with the  
30 accompanying drawings in which:

FIG. 1 schematically illustrates the overall system of the present  
20 invention, including databases, processes, and data input/output forms;

35 FIG. 2 is a flow chart illustrating the Buyer Process Manager of the  
present invention;

FIG. 3 is a flow chart illustrating the Bid Process Manager of the present  
40 invention;

25 FIG. 4 is a flow chart illustrating the Sale Manager of the present  
invention;

45 FIG. 5 is a flow chart illustrating the Invitation Manager of the present  
invention;

FIG. 6 is a flow chart illustrating the Group Process Manager of the  
30 present invention;

5 FIG. 7 is a flow chart illustrating the Vendor Process Manager of the  
present invention.

10 While the invention is susceptible to various modifications and alternative  
forms, specific embodiments thereof have been shown by way of example in the  
5 drawings and will herein be described in detail. It should be understood,  
however, that the detailed description is not intended to limit the invention to  
the particular forms disclosed. On the contrary, the intention is to cover all  
15 modifications, equivalents, and alternatives falling within the spirit and scope of  
the invention as defined by the appended claims.

#### 10 DETAILED DESCRIPTION OF THE INVENTION

20 The system and method of the present invention facilitates  
communication between one or more buyers and one or more vendors. The  
process is initiated by a buyer submitting information about a desired product.  
25 This information is communicated to vendors and to other potential buyers  
15 across a wide area computer network such as the Internet. Other buyers are  
then allowed, and alternatively invited, to submit bid information to join a group  
and express interest in the desired product so that the vendors can gauge the  
30 demand for the desired product. One or more vendors may then offer the  
desired product at a given price. The inventive system and method then  
20 automatically selects the vendor offering the lowest price. Once a vendor has  
submitted information about the offered product, it is assigned a "Start Time," a  
35 "Hold Time" and a "Close Time" and becomes a sale. After the Start Time, the  
group information is converted to bids for the product. Further, all buyers may  
40 place additional bids for the product. At the Close Time, any outstanding bids  
25 are processed and the product is sold at the price offered by the vendor. The  
Hold Time freezes the minimum bid for the offered product by requiring users  
who have an open bid at the Hold Time to honor that bid. After the Hold Time  
45 users cannot withdraw or decrease their bids, although they may increase bids  
or add a new bid. Until the Hold Time, the user has complete freedom. Any  
30 buyer can decide to increase the number of units bid for, introduce a new bid,  
50 decrease the number of units bid for, or withdraw a bid completely.



5 As shown in FIG. 1, one embodiment of the invention comprises a  
computer system having a number of software modules including: Forms that  
allow the input of information from vendors and buyers; Databases that organize  
and store the buyer and vendor information; and Managers that process and  
10 communicate the information between the Forms and the Databases.

Specifically, the Forms comprise: Merchandise Submission Form 102,  
which allows vendors to submit information about offered products; Invitation  
15 Submission/Acceptance Form 104, which allows buyers to invite others to the  
system and invited buyers to accept the invitation; Merchandise Interest  
20 Submission Form 106, which allows buyers to submit information and thus  
request a product; Bid Submission Form 108, which allows a buyer to submit a  
bid for an offered product; and Group Entry Form 110, which allows buyers to  
express interest in a requested product.

25 The Managers process and control the flow of information from the Forms  
and Databases and comprise: Vendor Process Manager 112, which controls the  
products placed for sale by a vendor; Sale Manager 114, which controls the  
initiation and closing of sales; Invitation Manager 116, which controls the  
30 invitation of other buyers to join the bidding process for a particular product;  
Vendor Process Manager 118, which controls the products requested by buyers;  
20 Bid Process manager 120, which controls the buyers bids for an offered  
product; and Group Manager 122, which enables other buyers to join in and  
express interest in a requested product. Specific operations of the Managers are  
illustrated in FIGs. 2-7 and described below.

40 The Databases organize and store the product, vendor and bid information  
and comprise: Vendor Database 124, which stores information about all the  
participating vendors; Customer Database 126, which stores information about  
all the buyers registered to participate in online purchasing; Merchandise  
45 Description Database 128, which stores information about each product offered  
for sale; Group Database 130, which stores information about buyer demand for  
a requested product; Sales Database 132, which stores information about each  
30 sale that is known to the system; Bid Database 134, which stores bids

5 registered by buyers for each sale, and Orders Database 136, which stores  
orders at the consummation of a Sale.

10 The Buyer Process Manager 118 enables a user, preferably only a  
registered user, to post a description of the merchandise the user is interested  
15 in, in order to request a product. Once the product is requested, a group can  
begin forming, thereby aggregating other potential buyers with a similar interest.  
A flow chart illustrating the operation of Buyer Process Manager 118 is provided  
in FIGs. 2A and 2B.

FIG. 2A illustrates in flow-chart form the process triggered by a buyer  
10 submitting information for a requested product via Merchandise Interest  
Submission Form 106. At step 201, the system checks to see if the buyer is  
20 registered. Also at step 201, the buyer's identity is authenticated. Various  
methods of identifying a buyer, including reading his network address, are  
25 envisioned as part of the present invention, as will be understood by one having  
the normal skill in the art to which the present invention pertains. Preferably,  
the authentication process is automated. In step 202, the buyer submits  
30 identifying information and, if not yet registered, registers with the system. In  
step 203, Buyer Process Manager 118 processes information from Merchandise  
Interest Submission Form 106 to the system. Specifically, the information is  
20 checked for validity and completeness including determining whether the desired  
product is fully described so as not to be ambiguous when reviewed by potential  
35 vendors. Buyer Process Manager 118 also determines whether other buyers  
have already requested such a product. At step 204, the buyer is notified if  
there is a problem with the information and prompted for correction. The buyer  
40 is also notified if another buyer has already requested the same or similar  
product and the buyer is given the option to join the group for that product as  
described below. At step 205, the verified merchandise description is passed to  
45 Merchandise Description Database 124 and the price for the product set as "no  
current price" since no vendor has yet offered the product. Group Database 136  
30 is updated at step 206 by creating a new record for the requested product so  
that other buyers express interest.

5 As shown in FIG. 2B, information about the product is communicated to  
potential buyers at step 207, preferably by posting the information on the  
Internet or other wide area network. Finally, at step 208, the information is  
10 communicated about the requested product to vendors, also preferably via the  
5 Internet. The information could also be communicated through newspapers,  
email, telephone or other means.

15 FIGs. 3A and 3B are flow charts illustrating the operation of Bid Process  
Manager 120, allowing a prospective buyer to register interest in purchasing a  
requested product that has subsequently been offered for sale (as shown in FIG.  
10 7) by placing a bid for the product. As shown in FIG. 3A, the prospective buyer  
is checked at step 301 to determine whether the buyer is registered with the  
20 system. This also includes any desired authentication steps to verify the  
customer's identity. Preferably, this could be accomplished using automated  
25 identification and authentication processes known to those skilled in the art.  
15 New customers are registered by submitting the requisite information in step  
302. In step 303, the customer's instruction to place a new bid in the sale or to  
increase the number of units in an existing bid is processed if the sale is  
30 between the Start Time and the Close Time. Instructions to decrease a bid or  
withdraw it altogether are processed in step 304 by checking to see if the Hold  
20 Time for the sale has occurred. Step 305 returns an error message to the  
35 customer if it is after the Hold Time for the sale, informing the customer that the  
bid cannot be deleted or reduced. If the Hold Time has not occurred, step 306  
deletes or reduces the customers bid accordingly and updates Bid Database  
40 134. New or increased bids processed in step 303 are verified in step 307,  
25 including checking to see if the bid refers to the product offered in the sale, and  
if the quantity requested is currently available. Step 308 returns an error  
45 message if the bid is not validated in step 307. Conversely, as shown in FIG.  
3B, validated bids are added to Bid Database 134 in step 309.

FIGs. 4A and 4B flow illustrate the operation of Sale Manager 114, which  
30 generally comprises the steps taken to initiate a new sale and the steps taken to  
close out a sale. Each sale stored in Sale Database 132 is in one of four  
50

5 different states: New, Active, Hold and Closed. Once a vendor has offered a  
product in response to a buyer request, a new sale is added to the Sales  
Database 132 based on the information obtained through Merchandise  
Submission Form 102 to Vendor Process Manager 112 as described below.

10 5 Sale Manager 114 controls the process by which a new sale becomes Active,  
Held, or Closed.

15 Specifically, FIG. 4A illustrates that at step 401, Sale Database 132 is  
queried for all new sales whose Start Time is at or after the current time. At  
step 402, such sales are marked as Active. In step 403, Active sales are  
10 communicated to prospective buyers, preferably through a wide area network  
such as the Internet. This includes getting the corresponding merchandise  
description information from Merchandise Description Database 128 and  
combining that with the sale information, formatting all of it appropriately,  
20 putting the final description through an approval process that may be  
automated, and then publishing the information on the web. At step 404, Sale  
Manager 114 queries Sale Database 132 for all Active sales with a Hold Time at  
or after the current time. Step 405 marks the appropriate sales as Held. Step  
30 406 queries the Sale database for all Held sales with a Close Time that is at or  
after the current time and marks them as Closed in step 407 so that no  
20 increases or new bids will be accepted.

35 FIG. 4B shows the steps taken to close out a sale. At step 408, Closed  
sales are identified and, at step 409, Bid Database 134 is queried for all  
outstanding bids corresponding to the Closed sale. At step 410, the product  
vendor's information is obtained from the Vendor Database 124 and the price  
40 information is taken from Merchandise Description Database 128. A purchase  
order is constructed for each buyer whose bid remains outstanding at the end of  
the sale. The purchase order reflects the number of units bid for by the  
45 customer and the unit price given by the vendor. At step 411, the processed  
bids are deleted from Bid Database 134 and newly created purchase orders from  
30 step 410 are added to Orders Database 136. Finally, at step 412, the

5 processed sale is deleted from Sale Database 132 and step 413 returns to step  
408 until all closed sales are processed.

10 A flow chart for the operation of Invitation Manager 116 in conjunction  
with Invitation Submission/Acceptance Form 104 is shown in FIG. 5. Generally,  
5 customers invite other users to join the system and bid on products. Since the  
invention is predicated on the aggregation of buying power, it is in the interests  
of the buyers to recruit as many new buyers as possible. Potential users  
15 wishing to accept the invitation use Invitation Manager 116 to do so. At step  
501 the processes are routed to one of two paths: at steps 502-506 an  
10 invitation is sent from a current user to a prospective one, while at steps 507-  
509, a prospective user may accept an invitation.

20 At step 502, current users wishing to issue an invitation are first checked  
to determine whether they are registered. If not, they are registered and added  
to Customer Database 126 in step 503. At step 504, invitation validity is  
25 checked. The validity determination may be based upon whatever policies are  
desired for a particular implementation. For example, in one embodiment a  
customer must invite another user to a specific sale only, or no more than 5  
30 users may be invited at any given time, or each customer must provide certain  
pieces of information about each user invited to join. At step 505 an error  
20 message is returned if the invitation is not validated by step 504. Valid  
35 invitations are formatted and then communicated to the desired prospective  
users in step 506. Suitable means of communication include email, fax, postal  
mail and the like. For example, the buyer who requests a product can send  
40 emails inviting others to express an interest, and the email could contain a  
25 uniform resource locator link so that the recipient can easily pull up the  
merchandise description information.

45 Invited users are checked at step 507 to determine whether they are in  
Customer Database 126. If the invitee is already a registered customer, then  
Invitation Manager 116 simply reminds the user. Alternatively, at step 508 the  
30 requisite information is obtained and the invitee is added to Customer Database

5 126 to register the user. Suitable identification of the invitor is added to the  
record of the invitee at step 509.

10 FIG. 6 illustrates the steps taken by Group Manager 122 when a buyer  
joins a group to indicate demand for a requested product by submitting  
5 information via Group Entry Form 110. At step 601, the system checks whether  
the buyer is registered. This step also authenticates the buyer to verify the  
buyer's identity. This includes various ways of identifying a buyer including  
15 reading his network address, etc. At step 602, the buyer submits his  
information and registers himself with the system if the buyer is currently not  
10 registered with the system. At step 603, Group Manager 122 validates  
information from Group Entry Form 110 to determine which group in Group  
20 Database 130 the buyer wishes to join. The buyer also specifies the number of  
units of the product desired. At step 604, the buyer is notified whether there is  
a problem with the information and prompts correction. At step 605, Group  
25 Database 130 is updated to reflect the buyer's interest.

30 The flow charts of FIGs. 7A and 7B illustrate the steps taken by Vendor  
Process Manager 114 to obtain information from Merchandise Submission Form  
102 about products offered by vendors in response to products requested by  
buyers. As shown in FIG. 7A, at step 701 vendor registration is checked vendor  
20 identity authenticated. At step 702, a previously unregistered vendor submits  
the necessary information. At step 703, Vendor Process Manager 114  
35 processes information from Merchandise Submission Form 102 and forwards the  
processed information. Specifically, the submitted information is checked for  
validity and completeness, and at step 204 the vendor is prompted to alert the  
40 system of any errors. The vendor supplies the quantity of the product offered  
and the offer price. At step 705, correspondence of the offered product to a  
25 requested product in Group Database 130 is verified and at step 706 the vendor  
is prompted if there is no match. If a requested product is matched in step 705,  
45 the price quoted by the vendor is compared to the current price at step 707. If  
there is no current price, or if the price is equal or superior to the price given by  
30 another vendor, steps 709 through 716 are executed as shown in FIG. 7B. If

5 the offered price is not equal or superior to the current price, the vendor is notified in step 708 and allowed to set a lower price if desired.

10 FIG. 7B illustrates the steps for updating the system once the vendor submits a valid offer price in step 707. At step 709, the current price for the  
5 product in the Merchandise Description Database 128 is set to the price offered by the vendor. Next, the system checks to see if a sale record already exists for the product in step 710. If Sale Database 132 includes a record for the product,  
15 the operation skips ahead to step 715. If not, a sale is created by steps 711 to 714. Specifically, at step 711 a sale record is created in Sale Database 132 and the sale is marked Active to indicate that the actual selling process is underway.  
20 In step 712, the Hold Time and the Close Time for the sale are set relative to the current time. Since the Sale becomes Active when the first valid vendor arrives, the user initiating the process cannot know exactly when to set the Hold Time and Close Time, both of which are therefore set relative to the Active  
25 Time. At step 713, all bids in Group Database 130 for the particular product are moved to Bid Database 134. Finally, at step 714, the merchandise description for the product is published. Alternatively, in step 715, where a sale record already exists Merchandise Description Database 128 is simply updated with the new price being offered by the current vendor. Step 716 follows either step  
30 714 or 715 depending on whether a sale record existed, and the group members of the vendor's offered product are notified accordingly.

35 The present invention therefore provides a novel method and system for buyer-initiated aggregating of buyers to obtain desired products at discounted prices. Although the present invention has been shown and described with  
40 respect to preferred embodiments, various changes and modifications lie within the spirit and scope of the claimed invention. Thus, the corresponding structures, materials, acts, and equivalents of all means or step plus function  
45 elements in the claims are intended to include any structure, material, or acts for performing the functions in combination with other elements as specifically  
30 claimed.

## Claims

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5 What is claimed is:

1. A computerized system for aggregating purchasing power  
comprising:

- 10 a) a Merchandise Interest Submission Form to obtain product  
5 information about a desired product from a first buyer;
- b) a Merchandise Submission Form to obtain sale information  
for the product from a first vendor;
- 15 c) a Buyer Process Manager to store product information in a  
Merchandise Description Database;
- 10 d) a Vendor Process Manager to store sale information in a Sale  
20 Database; and
- e) a Sale manager to match product information and sale  
information and generate orders for the product.
- 25 2. The computerized system of claim 1, further comprising a Group  
15 Entry Form to obtain group bid information from a second buyer about the  
product and a Group Manager to store the group bid information in a Group  
Database.
- 30 3. The computerized system of claim 1 further comprising an  
Invitation Manager to issue buying invitations to prospective buyers and accept  
20 buying invitations from prospective buyers.
- 35 4. The computerized system of claim 3 further comprising an  
Invitation Submission/Acceptance Form to obtain information for the Invitation  
Manager.
- 40 5. The computerized system of claim 2 further comprising a Bid  
25 Submission Form for obtaining bid information from a third buyer and a Bid  
Process Manager for storing the third buyer bid information in a Bid Database.
- 45 6. The computerized system of claim 5, wherein the Bid Process  
Manager allows new bids, increased bids, decreased bids and withdrawn bids  
for the product between a Start Time and a Close Time.
- 50

5           7.     The computerized system of claim 6, wherein the Bid Process  
Manager prevents decreased bids and withdrawn bids after a Hold Time  
occurring between the Start Time and the Close Time.

10           8.     The computerized system of claim 1, wherein the Vendor Process  
5 Manager compares sale information from the first vendor and sale information  
from a second vendor and stores desired sale information in the Sale Database.

15           9.     The computerized system of claim 1, wherein the vendor and the  
buyer submit information to and receive information from the system by way of  
a wide area network.

20           10.    The computerized system of claim 9, wherein the wide area  
network comprises the internet.

25           11.    The computerized system of claim 2, further comprising a  
Merchandise Description Database to store product information, a Vendor  
Database to store vendor information obtained from the Merchandise  
15 Submission Form, a Bid Submission Form for obtaining bid information from a  
third buyer, a Bid Process Manager for storing the third buyer bid information in  
a Bid Database, and an Invitation Manager to issue buying invitations to  
30 prospective buyers and accept buying invitations from prospective buyers.

20           12.    A computerized system for aggregating purchasing power  
comprising:

35           a)     Buyer Process means for obtaining product information about  
a desired product from a buyer;

40           b)     Vendor Process means for obtaining sale information from a  
first vendor about the product; and

25           c)     a Sale means for matching product information and sale  
information and generating orders for the product.

45           13.    The computerized system of claim 12, further comprising a Group  
means for obtaining group bid information from a second buyer about the  
product.

5           14. The computerized system of claim 12, wherein the Sale means  
compares sale information from the first vendor to sale information from a  
second vendor.

10           15. The computerized system of claim 13, further comprising a Bid  
5 Process means for obtaining bid information about the product from a third  
buyer.

15           16. The computerized system of claim 12, further comprising an  
Invitation means for issuing invitations to a second buyer and accepting  
invitations from the second buyer.

20           17. The computerized system of claim 13, further comprising a Bid  
Process means for obtaining bid information about the product from a third  
buyer, and an Invitation means for issuing invitations to a potential buyer and  
accepting invitations from the potential buyer.

25           18. The computerized system of claim 15, wherein the first buyer  
15 submits information to and receives information from the internet.

          19. A computer-implemented method for aggregating purchasing  
power comprising the steps of:

30           a) obtaining product information about a desired product from a  
buyer;

20           b) obtaining sale information from a first vendor about the  
35 product; and

          c) matching product information and sale information and  
generating orders for the product.

40           20. The method of claim 19, further comprising the step of obtaining  
25 group bid information from a second buyer about the product.

45           21. The method of claim 19, further comprising the steps of obtaining  
sale information from a second vendor and comparing the sale information from  
the first vendor and the sale information from the second vendor.

50           22. The method of claim 20, further comprising the step of obtaining  
30 bid information about the product from a third buyer.

5           23.    The method of claim 19, further comprising the steps of issuing  
              invitations to a second buyer and accepting invitations from the second buyer.

10           24.    The method of claim 20, further comprising the steps of obtaining  
              bid information about the product from a third buyer, issuing invitations to a  
5           potential buyer and accepting invitations from the potential buyer.

            25.    A computer-readable medium containing instructions for controlling  
15           a computer to aggregate purchasing power by:

            a)     obtaining product information about a desired product from a  
                  buyer;

10           b)     obtaining sale information from a first vendor about the  
20           product; and

            c)     storing and organizing the product information;

            d)     storing and organizing the sale information;

25           e)     matching product information and sale information; and

15           f)     generating orders for the product.

            26.    The computer-readable medium of claim 25, further comprising  
30           instructions for obtaining group bid information from a second buyer about the  
              product.

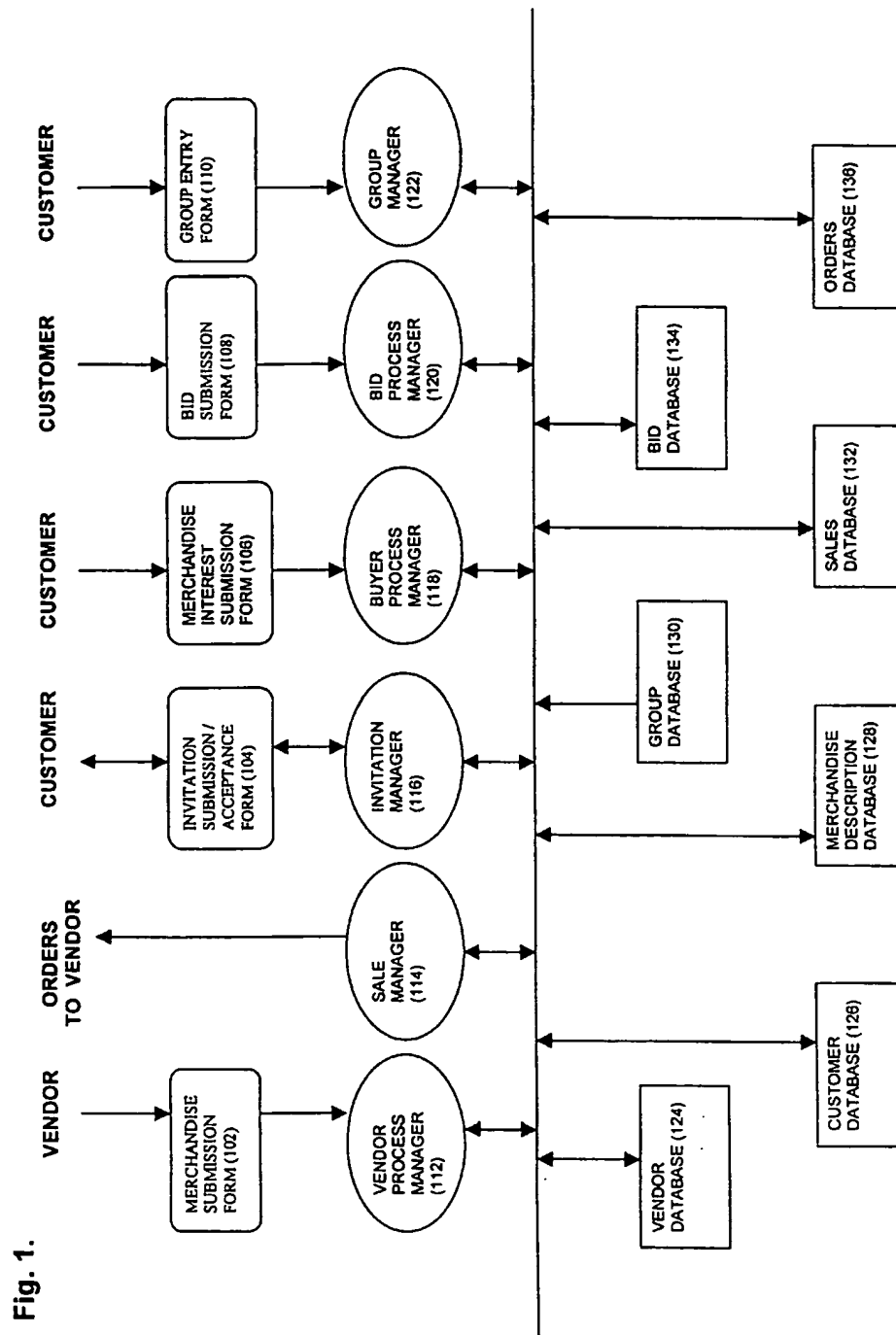
            27.    The computer-readable medium of claim 25, further comprising  
20           instructions for obtaining sale information from a second vendor and comparing  
35           the sale information from the first vendor and the sale information from the  
              second vendor.

            28.    The computer-readable medium of claim 26, further comprising  
40           instructions for obtaining bid information about the product from a third buyer.

25           29.    The computer-readable medium of claim 25, further comprising  
              instructions for issuing invitations to a second buyer and accepting invitations  
45           from the second buyer.

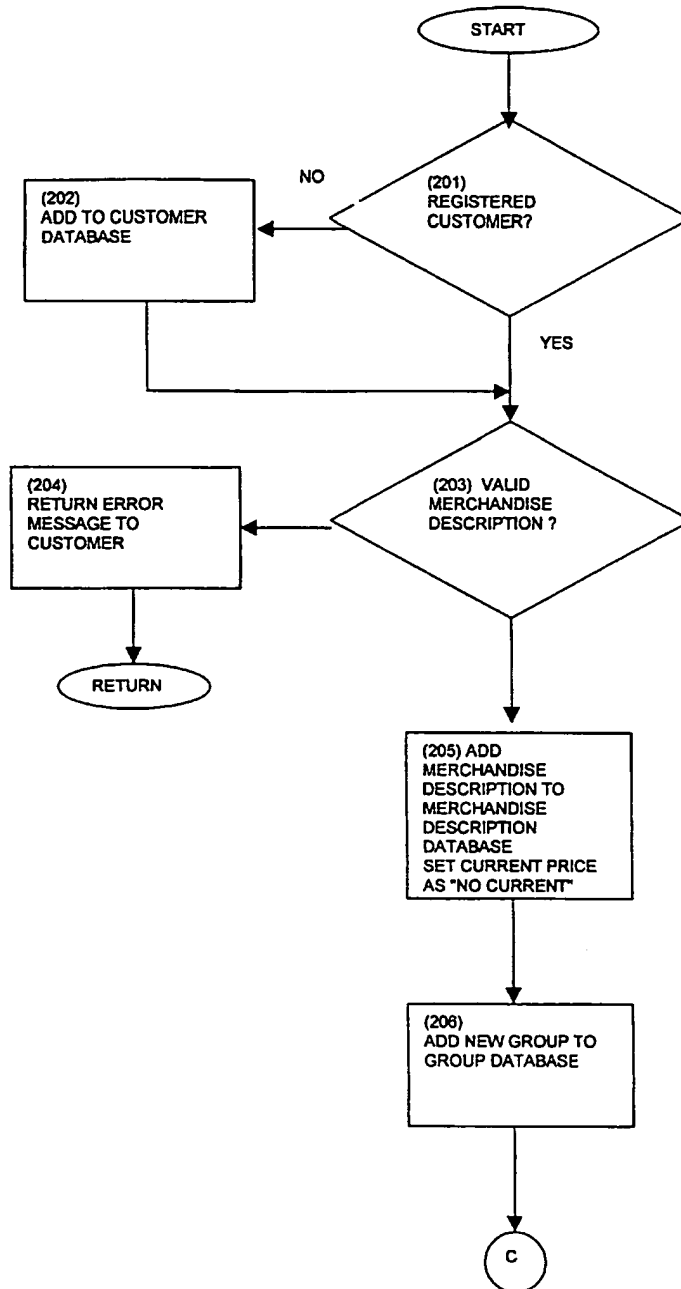
            30.    The computer-readable medium of claim 26, further comprising  
              instructions for obtaining bid information about the product from a third buyer,  
30           issuing invitations to a potential buyer and accepting invitations from the  
50           potential buyer.

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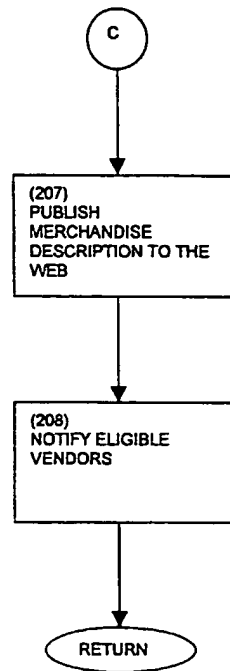
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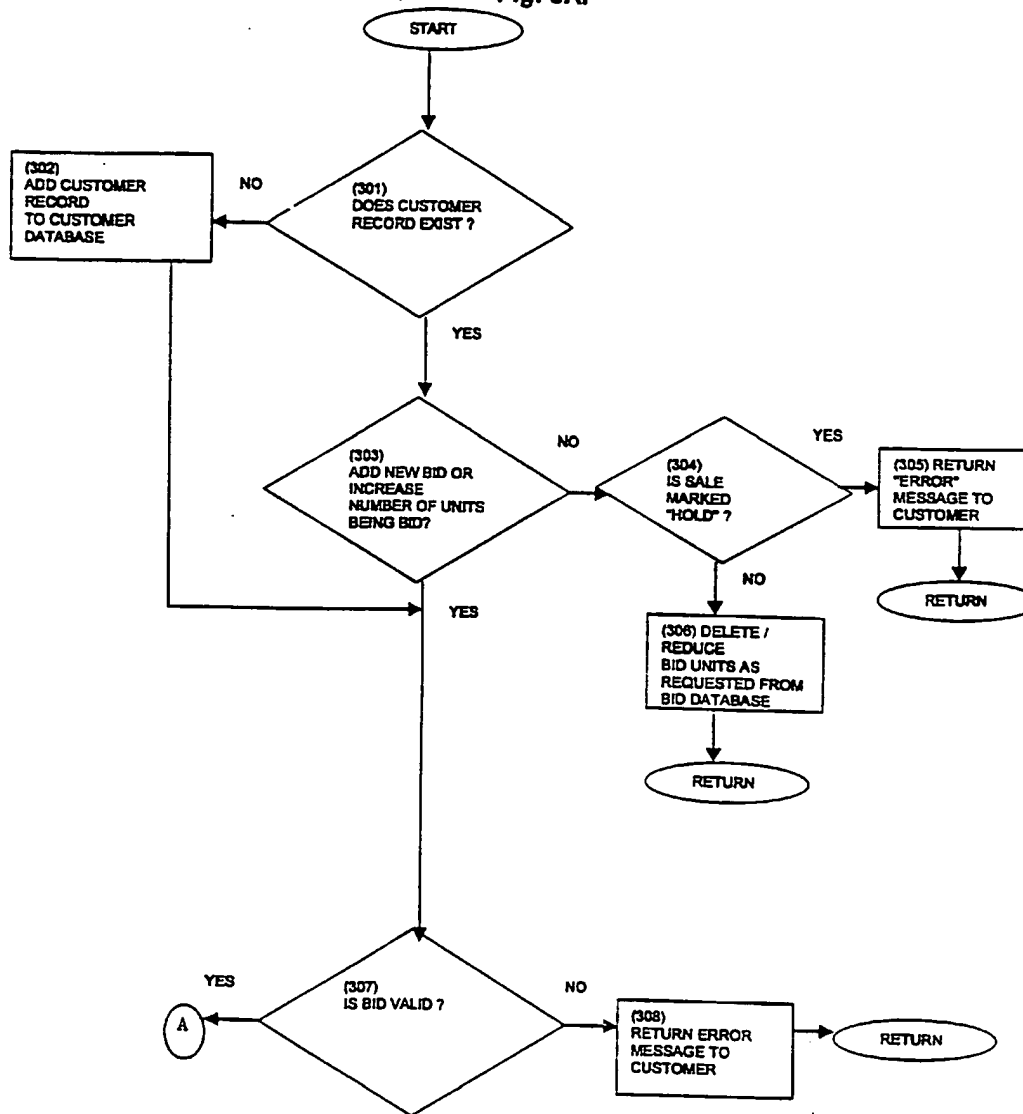
Fig. 2A.



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Fig. 2B.

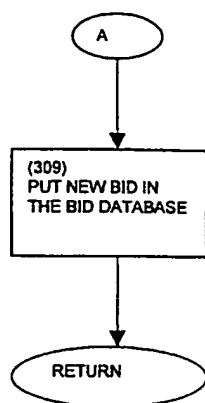


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Fig. 3A.



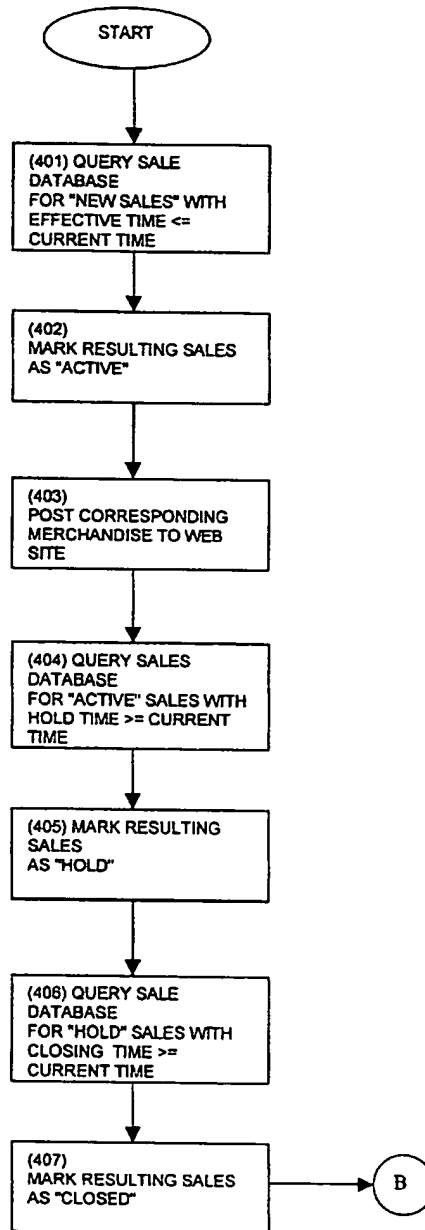
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**Fig. 3B.**



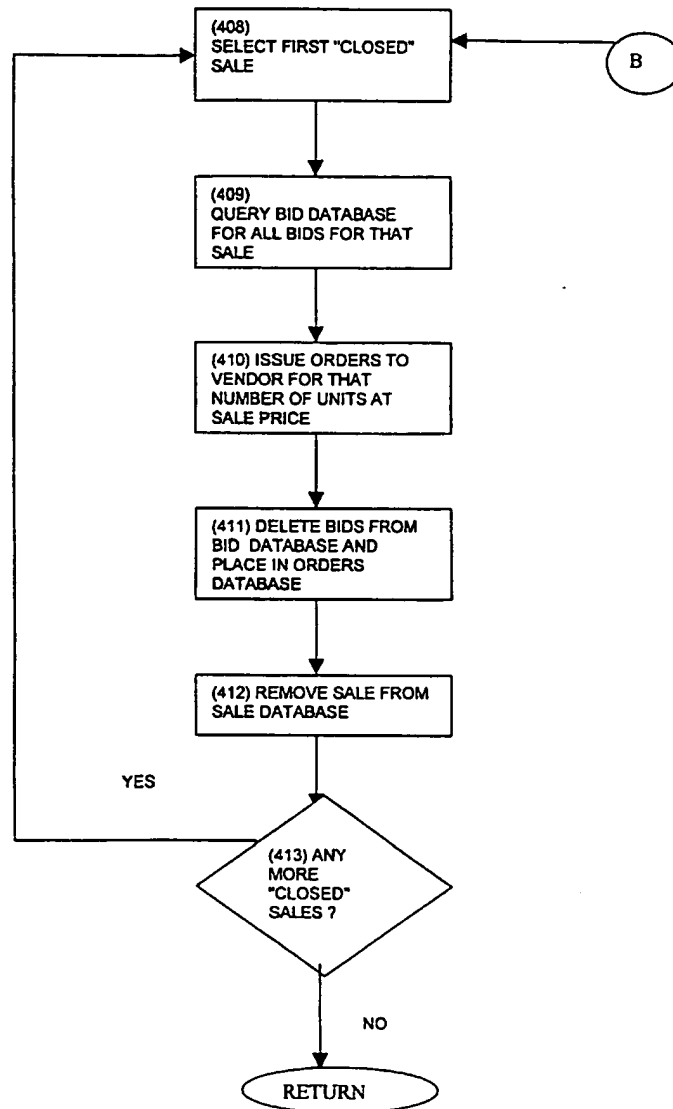
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Fig. 4A.



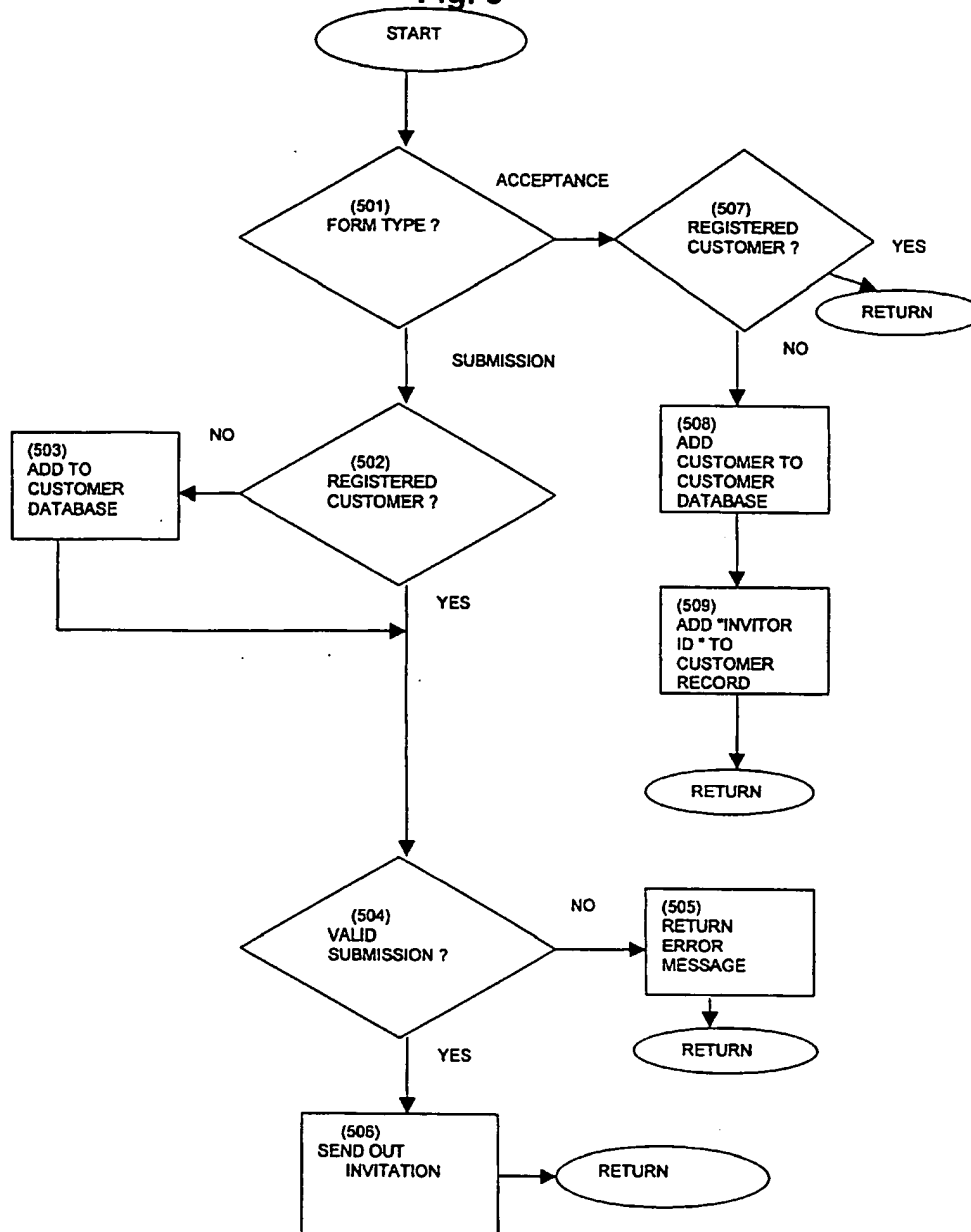
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Fig. 4B.



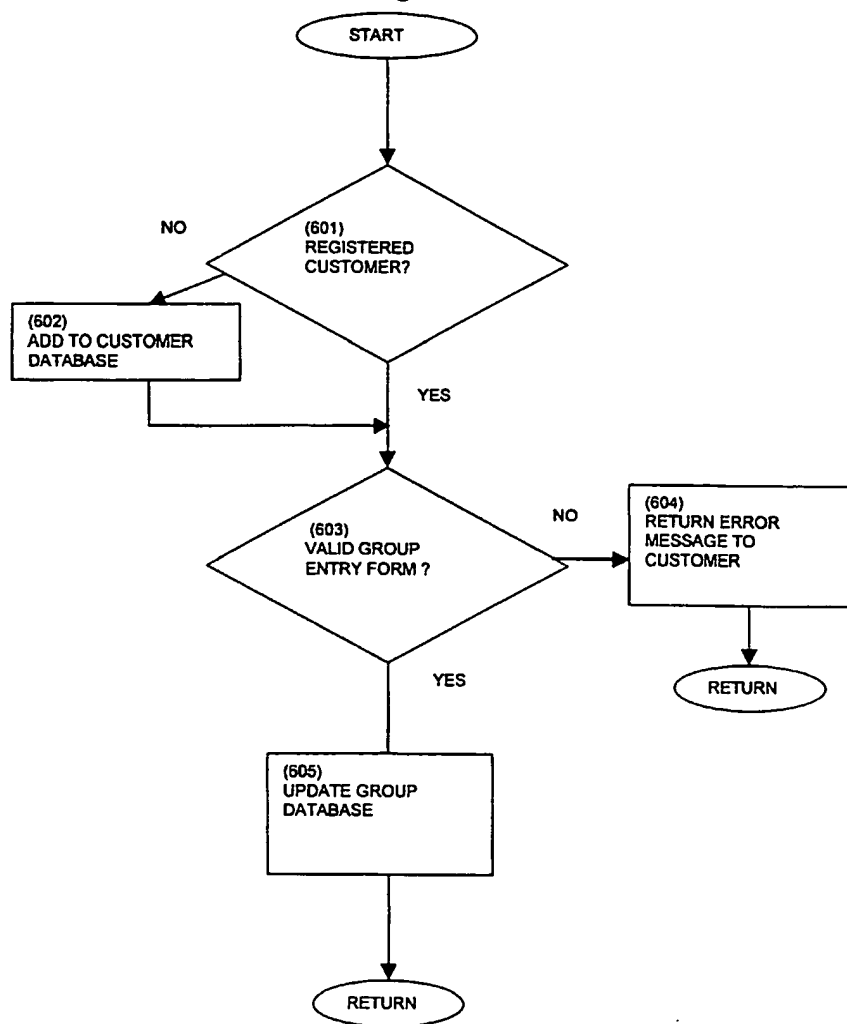
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Fig. 5



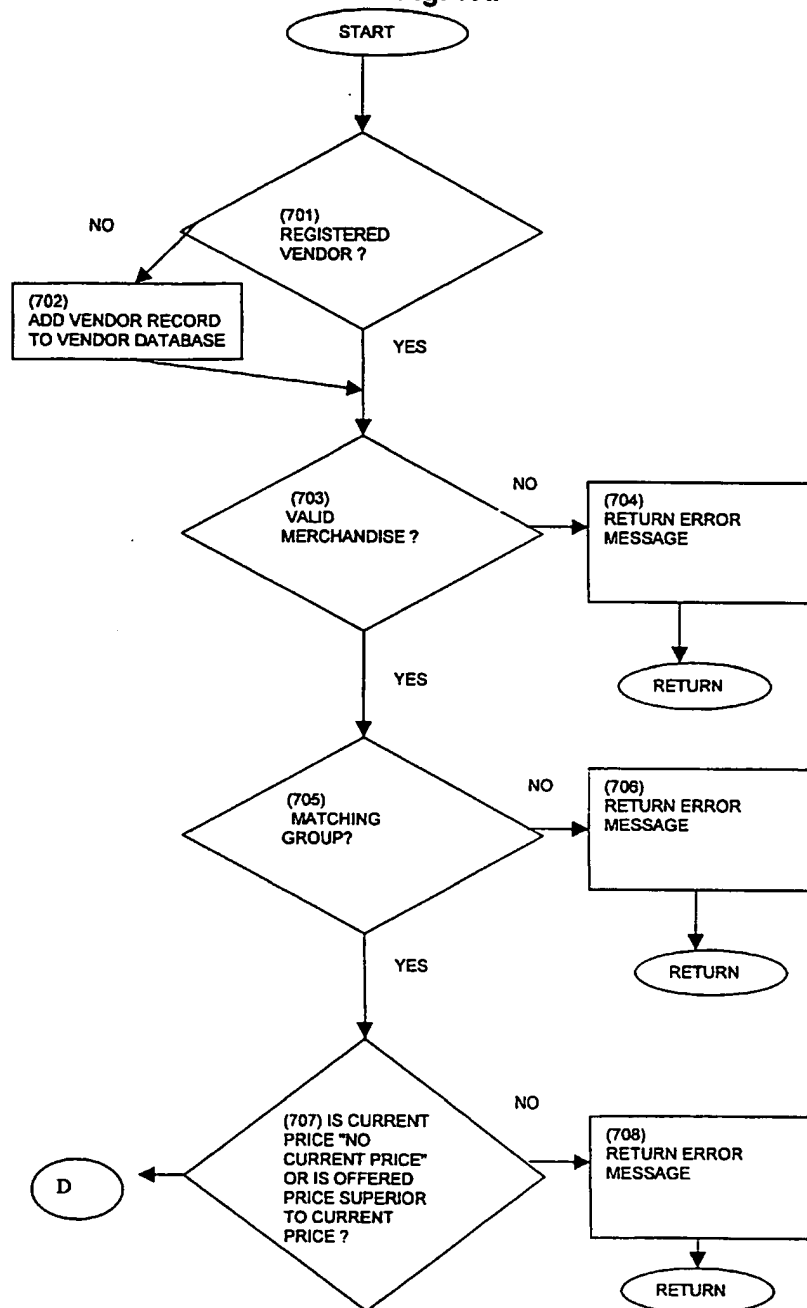
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Fig. 6.



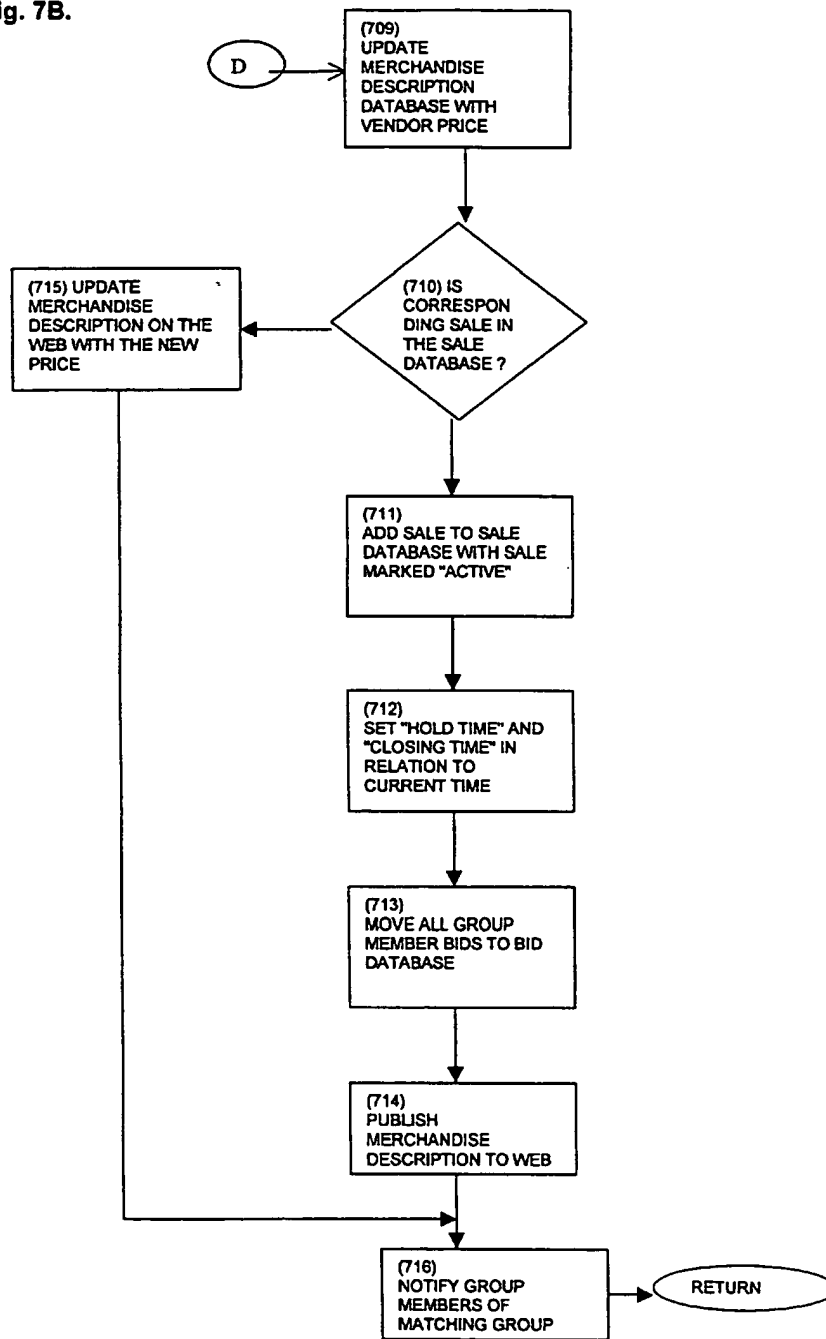
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Fig. 7A.



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Fig. 7B.



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